

## AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of all claims in the application:

Claims 1-44 (cancelled)

45. (Currently amended) ~~The~~ A non-naturally occurring integrin protein ~~according to claim 41~~ comprising thirteen amino acid substitutions as compared to the human integrin protein of SEQ ID NO: 1, said substitutions comprising amino acid substitutions F156L, V160I, V199I, I215L, V238F, V239L, I240L, A259L, I269L, V271F, I287V, V299A, and I308V and comprising the amino acid sequence of SEQ ID NO.: 3.

46. (Currently amended) ~~The~~ A non-naturally occurring integrin protein ~~according to claim 41~~ comprising nine amino acid substitutions as compared to the human integrin protein of SEQ ID NO: 1, said substitutions comprising amino acid substitutions F156W, V199I, I215L, V238F, V239L, I240L, A259L, I287V, and V299I and comprising the amino acid sequence of SEQ ID NO.: 4.

47. (Currently amended) ~~The~~ A non-naturally occurring integrin protein ~~according to claim 41~~ comprising eight amino acid substitutions as compared to the human integrin protein of SEQ ID NO: 1, said substitutions comprising amino acid substitutions

I139V, M153A, V157I, V199I, V238I, V239L, I287V, and V299I and comprising the amino acid sequence of SEQ ID NO.: 5.

48. (Currently amended) ~~The~~ A non-naturally occurring integrin protein ~~according to claim 41~~ comprising four amino acid substitutions as compared to the human integrin protein of SEQ ID NO: 1, said substitutions comprising amino acid substitutions I215V, V219I, F223L, and V238I and comprising the amino acid sequence of SEQ ID NO.: 6.

Claim 49 (cancelled)